

### **IN THE ABSTRACT**

The present invention relates to a receiver for estimation or compensation of phase imbalance or gain imbalance utilizing a QPSK modulation and a modulation scheme based on a complex scrambling code. According to the present invention the phase imbalance or gain imbalance is estimated or compensated before ~~synchronisation~~ synchronization. Thus, the phase imbalance and gain imbalance will not be able to introduce losses in the further phases of the connection.